Atty. Dkt. No. 034827-1401

SPECIFICATION

Amendments to the Specification:

Please amend paragraph 73 as follows:

[0073] Centrifugation is carried in ~~BioMek 2000~~ BIOMEK® 2000 or Vortex (VWR; G-560) instruments and centrifuges for spinning PCR trays (Sorvall T6000D).). The 96-well-plate centrifugation system from Qiagen may also be used. Microcentrifuges such as those from Eppendorf are used with Microcentrifuge tubes (from, e.g., National Scientific, CN065S-GT).

Please amend paragraph 80 as follows:

[0080] In order to process a large number of samples, a multipurpose automated or semi-automated programmable workstation is used (Meldrum, Automation for Genomics, Part One: Preparation for Sequencing, Genome Research, 10:1081-1092, 2000; Meldrum, Automation for Genomics, Part Two: Squencers, Microarrays, and Future Trends, Genome Research, 10:1288-1303, 2000). Preferred features of the workstation include the ability to rapidly and accurately pipette, dilute and dispense small volumes of liquids. The exemplary programable workstation used herein is the ~~BioMek® 2000~~ BIOMEK® 2000 (Beckman Coulter, Inc.).

Please amend paragraph 142 as follows:

[0142] For automated PCR setup on the ~~BioMek 2000~~ BIOMEK® 2000 robotic workstation, the PCR tray, a box of Robbins 125 µL pipet tips, a box of 20 µL pipet tips, the Qiagen sample tray and the reagent reservoir (trough) are placed at the appropriate positions on the ~~BioMek~~ BIOMEK® 2000 work surface. If the PCR or subsequent steps are set up manually, the same master mix recipe/digestion recipe is used, and the assay proceeds as described below without the BIOMEK® 2000 ~~BioMek~~, and single or multichannel pipettors and tips are used.

Please amend paragraph 144 as follows:

[0144] The ~~BioMek~~ BIOMEK® 2000 station first pipets 20 µl of the master mix into each 0.2 ml PCR tray wells, and then adds 5 µl specimen DNA or control. The wells are tightly sealed with PCR tube caps or Microseal A film. The sample tray is briefly (~ 5 s) vortexed and spun down for about 30 s in a plate centrifuge at 2,000-6,000g (1,600 rpm in a Sorvall T6000D centrifuge).

Please amend paragraph 159 as follows:

[0159] SAP-digested samples are prepared according to Example 4.5 for loading using a BIOMEK® 2000 ~~BioMek 2000~~. The SNaPShot product is diluted 15-fold with water, and then 2 µl of the diluted product is mixed with 10.5 µl of the Loading Mix. The plate is covered with septa, vortexed and spun down in the plate centrifuge. The plate is heated at 95°C for 5 minutes, then immediately placed on ice for 3 minutes or until use. The plate is spun down in a plate centrifuge to collect condensation. The plate is then assembled and loaded onto the ABI3100 Genetic Analyzer.

Please amend "Figure 1" on page 33 as follows:

Figure 1: TIGR/Myocilin's exon 3 SEQ ID NO: 9

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1     gatcattgtc tgtgtttgga aagattatgg attaagtggt gcttcgtttt cttttctgaa
61    tttaccagga tgtggagaac tagtttgggt aggagagcct ctcacgctga gaacagcaga
121   aacaattact ggcaagtatg gtgtgtggat gcgagacccc aagcccacct acccctacac
181   ccaggagacc acgtggagaa tcgacacagt tggcacggat gtccgccagg tttttgagta
241   tgacctcatc agccagtttа tgcagggcta cccttctaag gttcacatac tgcctaggcc
301   actggaaagc acgggtgctg tggtgtactc ggggagcctc tatttccagg gcgctgagtc
361   cagaactgtc ataagatatg agctgaatac cgagacagtg aaggctgaga aggaaatccc
421   tggagctggc taccacggac agttcccgta ttcttggggt ggctacacgg acattgactt
481   ggctgtggat gaagcaggcc tctgggtcat ttacagcacc gatgaggcca aaggtgccat
541   tgtcctctcc aaactgaacc cagagaatct ggaactcgaa caaacctggg agacaaacat
601   ccgtaagcag tcagtcgcca atgccttcat catctgtggc accttgtaca ccgtcagcag
661   ctacacctca gcagatgcta ccgtcaactt tgcttatgac acaggcacag gtatcagcaa
721   gaccctgacc atcccattca agaaccgcta taagtacagc agcatgattg actacaaccc
781   cctggagaag aagctctttg cctgggacaa cttgaacatg gtcacttatg acatcaagct
841   ctccaagatg tgaaaagcct ccaagctgta caggcaatgg cagaaggaga tgctcagggc
901   tcctgggggg agcaggctga agggagagcc agccagccag ggcccaggca gctttgactg
961   ctttccaagt tttcattaat ccagaaggat gaacatggtc accatctaac tattcaggaa
1021  ttgtagtctg agggcgtaga caatttcata taataaatat cctttatctt ctgtcagcat
1081  ttatgggatg tttaatgaca tagttcaagt tttcttgtga tttggggcaa aagctgtaag
1141  gcataatagt ttcttcctga aaaccattgc tcttgcatgt tacatggtta ccacaagcca
1201  caataaaaag cataacttct aaaggaagca gaatagctcc tctggccagc atcga
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Please amend "Figure 2" on page 34 as follows:

Figure 2: TIGR/Myocilin's promoter sequence SEQ ID NO: 10

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   1  agcgcagggg aggagaagaa aagagaggga tagtgtatga gcaagaaaga cagattcatt
  61  caagggcagt gggaattgac cacagggatt atagtccacg tgatcctggg ttctaggagg
 121  cagggctata ttgtgggggg aaaaaatcag ttcaagggaa gtcgggagac ctgatttcta
 181  atactatatt tttcctttac aagctgagta attctgagca agtcacaagg tagtaactga
 241  ggctgtaaga ttacttagtt tctccttatt aggaactctt tttctctgtg gagttagcag
 301  cacaagggca atcccgtttc ttttaacagg aagaaaacat tcctaagagt aaagccaaac
 361  agattcaagc ctaggtcttg ctgactatat gattggtttt ttgaaaaatc atttcagcga
 421  tgtttactat ctgattcaga aaatgagact agtacccttt ggtcagctgt aaacaaacac
 481  ccatttgtaa atgtctcaag ttcaggctta actgcagaac caatcaaata agaatagaat
 541  ctttagagca aactgtgttt ctccactctg gaggtgagtc tgccagggca gtttggaaat
 601  atttacttca caagtattga cactgttgtt ggtattaaca acataaagtt gctcaaaggc
 661  aatcattatt tcaagtggct taaagttact tctgacagtt ttggtatatt tattggctat
 721  tgccatttgc tttttgtttt ttctctttgg gtttattaat gtaaagcagg gattattaac
 781  ctacagtcca gaaagcctgt gaatttgaat gaggaaaaaa ttacattttt gtttttacca
 841  ccttctaact aaatttaaca ttttattcca ttgcgaatag agccataaac tcaaagtggt
 901  aataacagta cctgtgattt tgtcattacc aatagaaatc acagacattt tatactatat
 961  tacagttgtt gcagatacgt tgtaagtgaa atatttatac tcaaaactac tttgaaatta
1021  gacctcctgc tggatcttgt ttttaacata ttaataaaac atgtttaaaa ttttgatatt
1081  ttgataatca tatttcatta tcatttgttt cctttgtaat ctatatttta tatatttgaa
1141  aacatctttc tgagaagagt tccccagatt tcaccaatga ggttcttggc atgcacacac
1201  acagagtaag aactgattta gaggctaaca ttgacattgg tgcctgagat gcaagactga
1261  aattagaaag ttctcccaaa gatacacagt tgttttaaag ctaggggtga gggggggaaat
1321  ctgccgcttc tataggaatg ctctccctgg agcctggtag ggtgctgtcc ttgtgttctg
1381  gctggctgtt atttttctct gtccctgcta cgtcttaaag gacttgtttg gatctccagt
1441  tcctagcata gtgcctggca cagtgcaggt tctcaatgag tttgcagagt gaatggaaat
1501  ataaactaga aatatatcct tgttgaaatc agcacaccag tagtcctggt gtaagtgtgt
1561  gtacgtgtgt gtgtgtgtgt gtgtgtgtgt gtaaaaccag gtggagatat aggaactatt
1621  attggggtat gggtgcataa attgggatgt tctttttaaa aagaaactcc aaacagactt
1681  ctggaaggtt attttctaag aatcttgctg gcagcgtgaa ggcaaccccc ctgtgcacag
1741  ccccacccag cctcacgtgg ccacctctgt cttcccccat gaagggctgg ctccccagta
1801  tatataaacc tctctggagc tcgggcatga gccagcaagg ccacccatcc aggcacctct
1861  cagcacagca gagctttcca gaggaagcct caccaagcct ctgcaatgag gttcttctgt
1921  gcacgttgct gcagctttgg gcctgagatg ccagctgtcc agctgctgct tctggcctgc
1981  ctggtgtggg atgtgggggc caggacagct cagctcagga aggccaatga ccagagtggc
2041  cgatgccagt ataccttcag tgtggccagt cccaatgaat ccagctgccc agagcagagc
2101  caggccatgt cagtcatcca taacttacag agagacagca gcacccaacg cttagacctg
2161  gaggccacca aagctcgact cagctccctg gagagcctcc tccaccaatt gaccttggac
2221  caggctgcca ggccccagga gacccaggag gggctgcaga gggagctggg caccctgagg
2281  cgggagcggg accagctgga aacccaaacc agagagttgg agactgccta cagcaacctc
2341  ctccgagaca agtcagttct ggaggaagag aagaagcgac taaggcaaga aaatgagaat
2401  ctggccagga ggttggaaag cagcagccag gaggtagcaa ggctgagaag gggccagtgt
2461  ccccagaccc gagacactgc tcgggctgtg ccaccaggct ccagagaagg taagaatgca
2521  gagtgggggg actctgagtt cagcaggtga tatggctcgt agtgacctgc tacaggcgct
2581  ccaggcctcc ctgcctgccc tttctcctag agactgcaca gctagcacaa gacagatgaa
2641  ttaaggaaag cacagcgatc accttcaagt attactagta atttagctcc tgagagcttc
2701  atttagatta gtggttcaga gttcttgtgc ccctccatgt cagttttcac agtccatagc
2761  aaaaggagaa ataaaaggac cgggtgagat gtgtctgcat
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